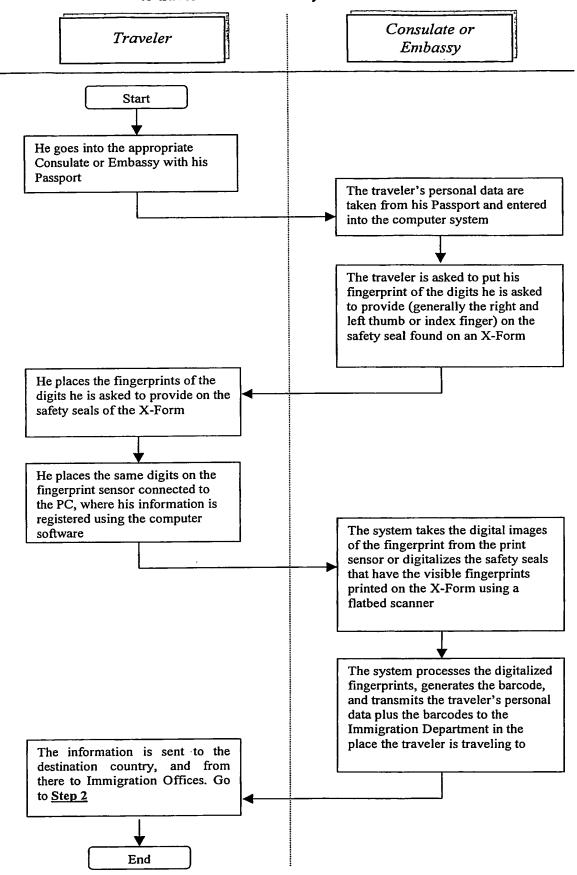
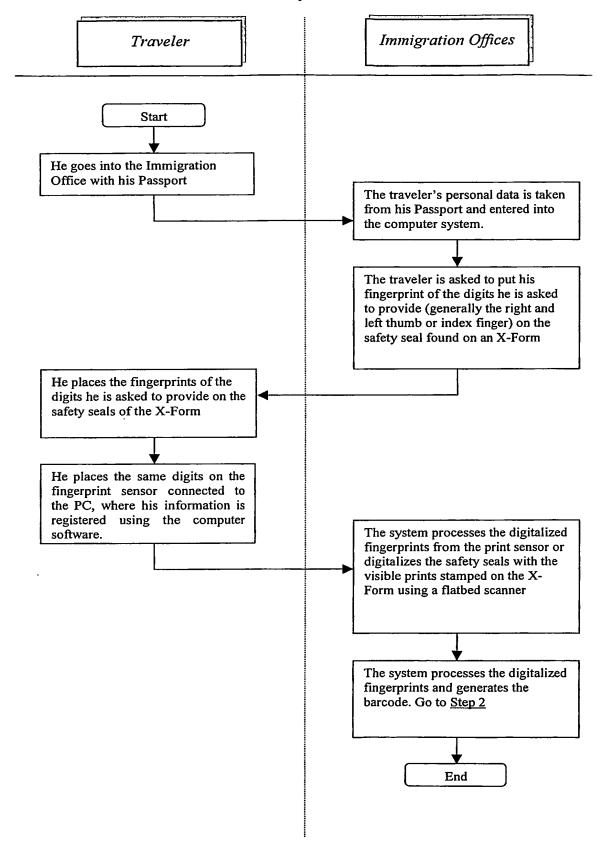
Figure 1A: Step 1 (a): When a traveler goes into the appropriate Consulate or Embassy to travel to another country



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Figure 1B: Step (b): When a traveler goes into the Immigration Office of the destination country having entered the country without having gone to the Consulate or Embassy



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<u>Figure 2: Step 2</u>: Converting a fingerprint into a barcode

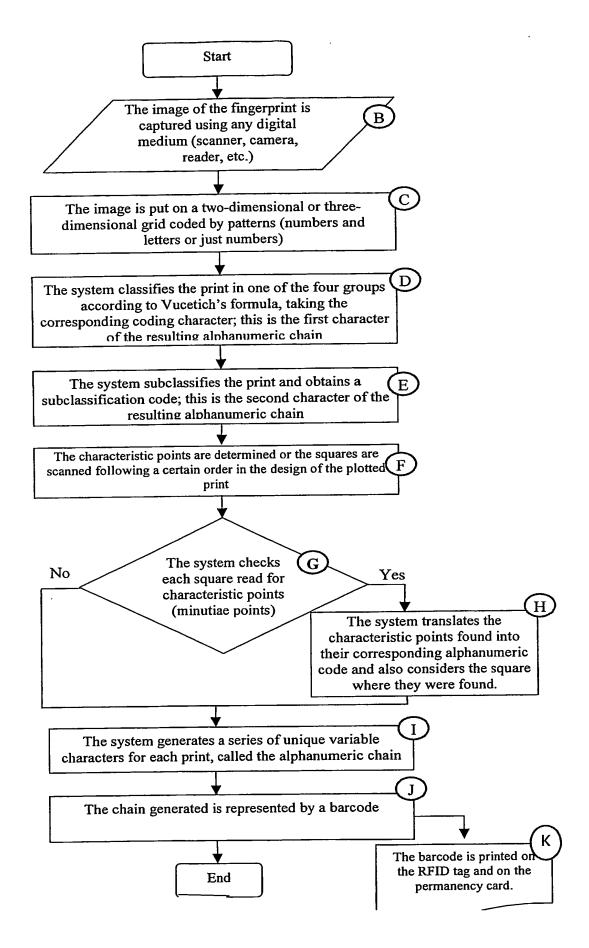


Figure 3: Step 3: Issuing an RDFI Tag to be attached to a Passport, and issuing a Permanency Card with an RDFI

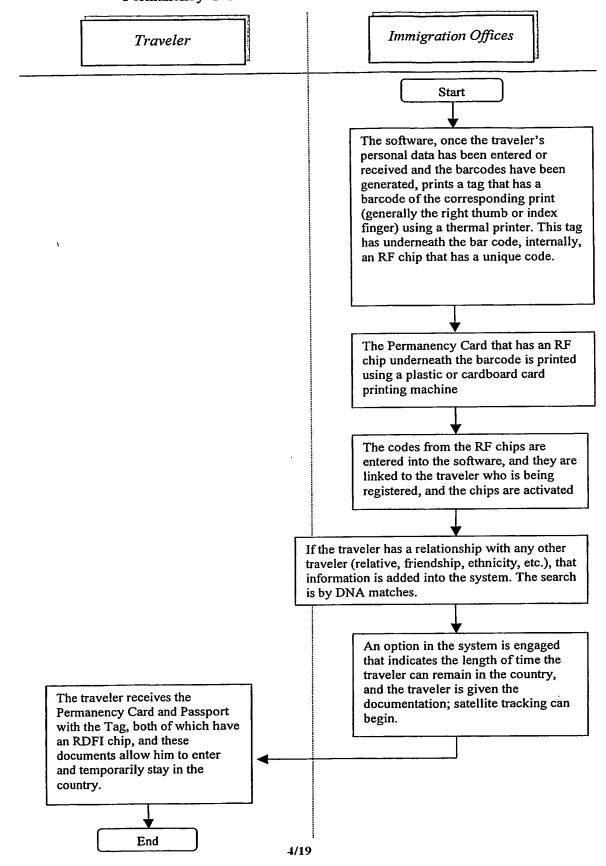


Figure 4: Step 4: When a traveler leaves the country by the date found on his immigration document

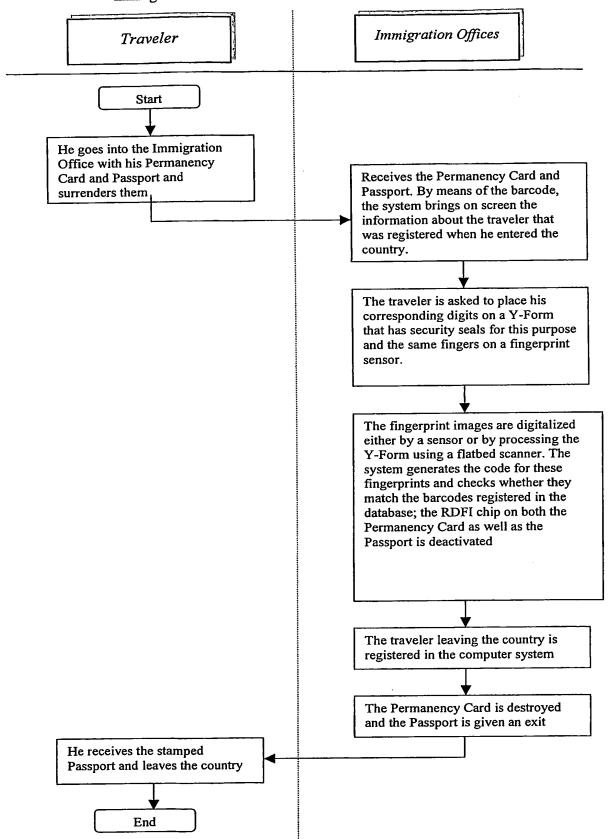


Figure 5: Step 5: The traveler does not leave the country on time and his immigration document expires

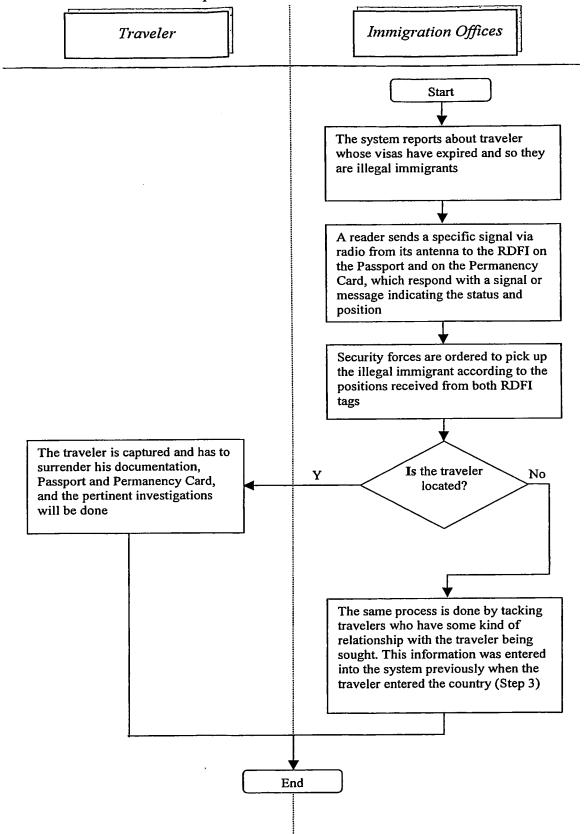
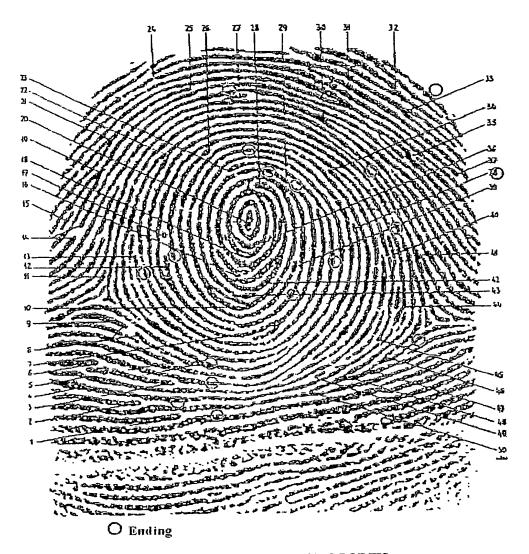


Figure 6

Infograph of a fingerprint and its characteristic points (minutiae points)



MARKED CHARACTERISTIC POINTS

The image shows the following points: 1, 2, 3 Ending; 4 Bifurcation; 5 Ending; 6 Deviation; 7 Bifurcation (lower outer branch cut); 8 Interruption; 9 Large fragment; 10 Large island; 11 Ending; 12 Bifurcation (inner upper branch cut); 13 Ending; 14 Interruption; 15 Fragment; 16 Bifurcation (outer branch cut); 17 Dot; 18 Large island; 19 Convergence; 20 Fragment; 21 Convergence; 22 Convergence; 23 Ending; 24 Interruption; 25 Ending; 26 Ending; 27 Small fragment; 28 Ending; 29 Bifurcation; 30 Bifurcation; 31 Convergence; 32 Ending, 33 Bifurcation; 34 Ending; 35 Transversal; 36 Bifurcation; 37, 38, 39 Ending; 40 Convergence (outer branch cut); 41 Bifurcation; 42 Large island; 43 Ending; 44 Transversal; 45 Ending; 46, 47, 48 Convergence; 49 Small fragment; 50 Convergence.

Figure 7
INFOGRAPH OF GRID MODEL

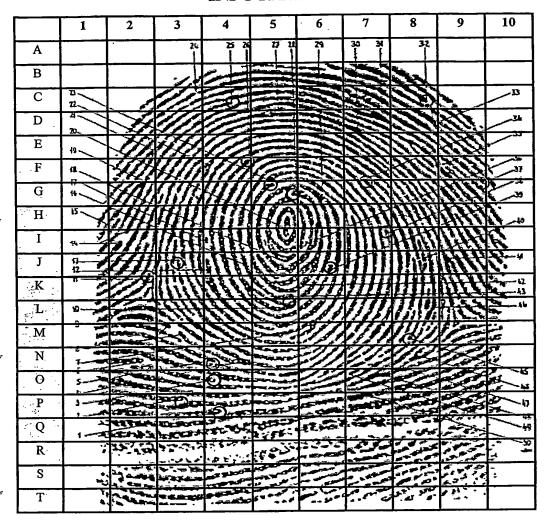
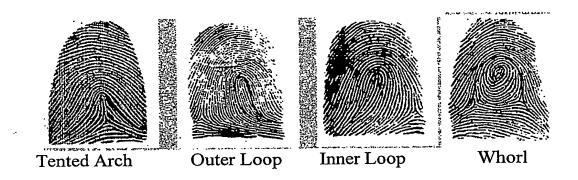


Figure 8



TYPE	THUMBS	OTHER FINGERS		
Arch	Α	1		
Inner Loop	l l	2		
Outer Loop	E	3		
Whorl	V	4		

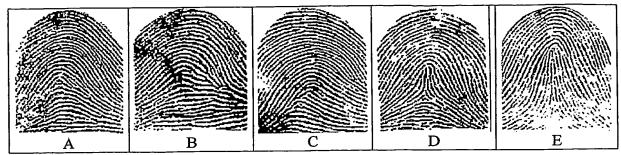


Figure 9

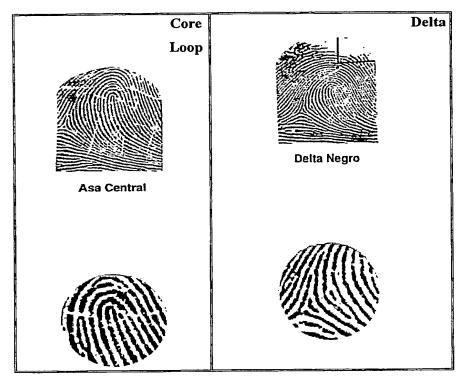


Figure 10

[text in Figure 5]

Delta Negro = Black Delta

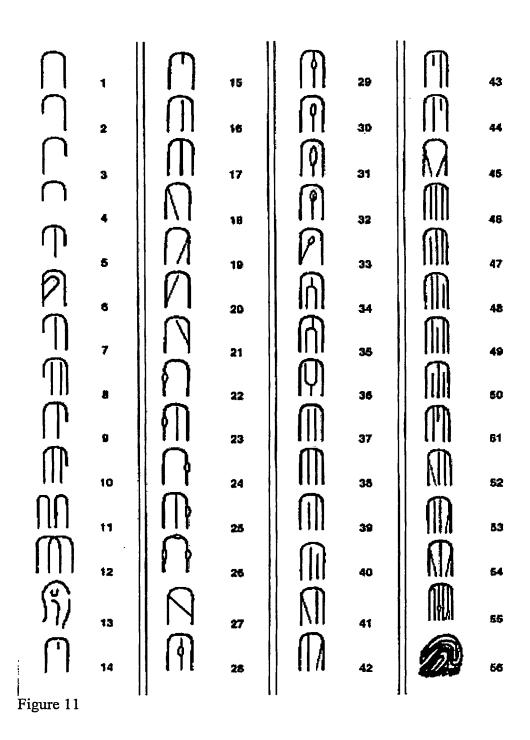
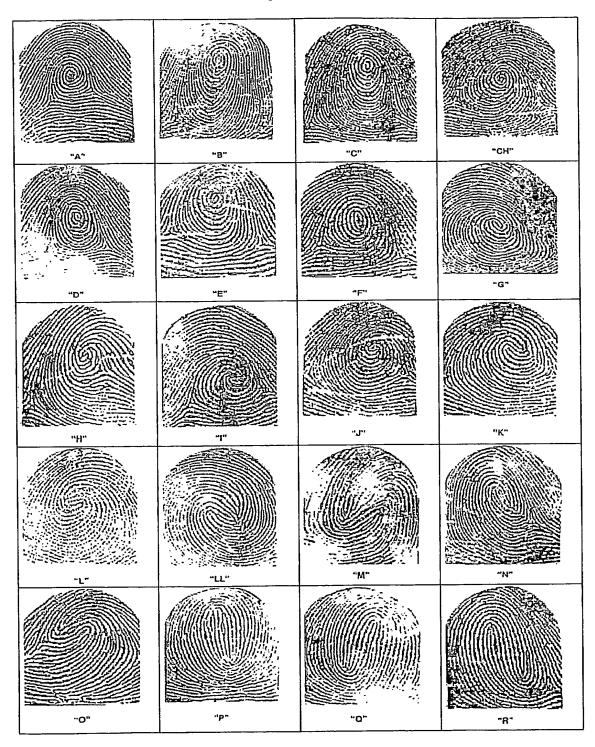
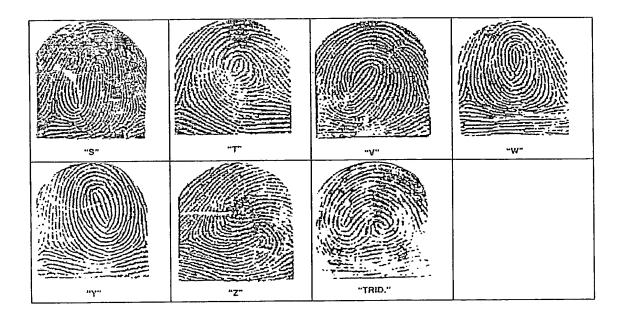


Figure 12A



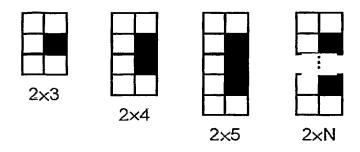
.1

Figure 12B



Minutiae Patterns

Figure 13



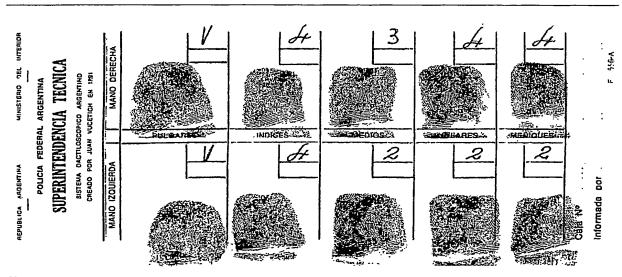
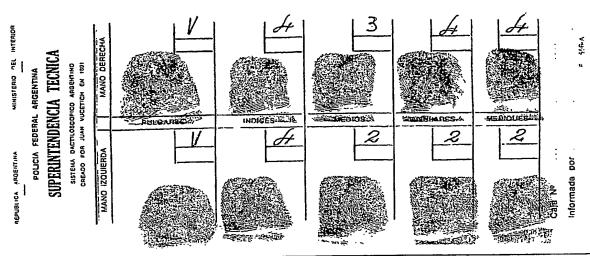


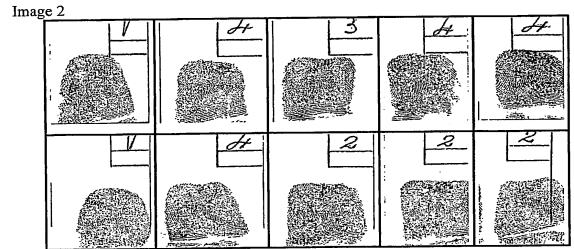
Figure 14

Digitalized Fingerprint Card

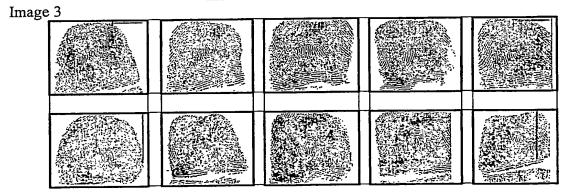




Multiple Segmentation

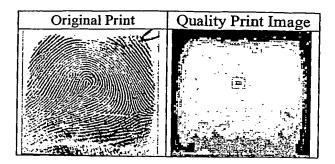


Individual Segmentation



Quality

Image 4



Each 8 x 8 block of pixels is assigned a value—0, 1, 2, 3, or 4—representing the quality level of the block. In turn, each value represents a quality percentage and is shown graphically with a color, varying between black and white:

0 = 0 % = black

1 = 25 % = dark gray

2 = 50 % = medium gray

3 = 75% = light gray

4 = 100 % = white

To obtain the general quality percentage or level of the print, the following formula is applied:

 \sum values of all blocks / Number of blocks

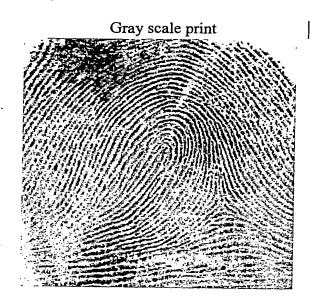
Prints with a Marked Core

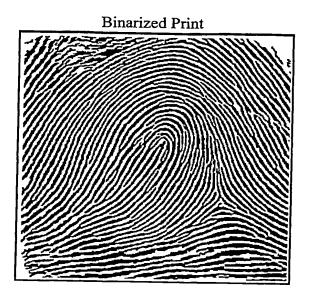
Image 5



Binarized Print

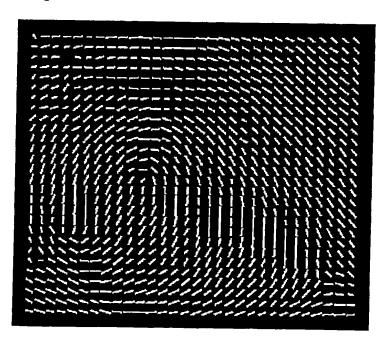
Image 6





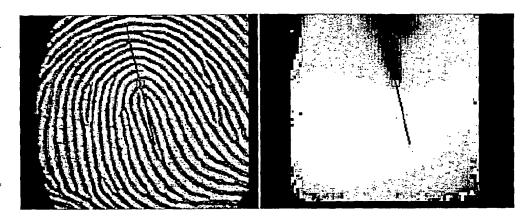
Local Orientation Graph

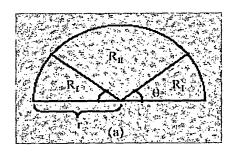
Image 7

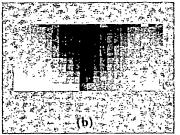


General Orientation Graph of a Print

Image 8







- (a) The circular mask to extract the central point of the print
- (b) Map generated from applying the circular mask

Print with General Orientation Inserted on a Grid

Image 9

	1	2	3	4	5	6	7	8	9	10
Α										
В										
С										
D										
Е									28 T	è
F		.5								
G										
Н										
I		4/	FF.						18.	
J [*]										
K		111		111						
L		A.1.1				M		A E		i.a.
M					W	149				73.
N						38 \$				
0						141			M	
P						111	1			
Q			111			1			-	
R				M					Sales of the Party	
S							13			
T				181				-		